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	Application No.	Applicant(s)	
Notice of Allowability	10/008,476	TSUI ET AL.	
	Examiner	Art Unit	
	Dac V. Ha	2634	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.			
1. This communication is responsive to <u>amendment filed on 04/18/05.</u>			
2. The allowed claim(s) is/are 1-18.			
3. The drawings filed on 10 December 2001 are accepted by the Examiner.			
 4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements 			
noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	ENT of this application.		
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.			
6. CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying Indicia such as the application number (see 37 CFR 1.	on's Patent Drawing Review (PTO-s Amendment / Comment or in the O	ffice action of	
each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.			
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/06 Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Summary Paper No./Mail Date B), 7. ☐ Examiner's Amendm	e	
		Dac V. Ha Primary Examiner Art Unit: 2634	

Application/Control Number: 10/008,476

Art Unit: 2634

Allowable Subject Matter

- 1. Claims 1-18 are allowed.
- 2. The following is a statement of reasons for the indication of allowable subject matter:

Applicants have amended the claims in accordance to the office action dated 03/28/05. The present invention relates to improved method and apparatus of separating simultaneous signal in a single channel at the receiving side including the use of first and second fast Fourier transform connected in cascade order and "a digital filter bank receiving output from said second fast Fourier transform"; "eliminating the digital filter bank output by comparing to a preselected threshold and a plurality of narrow-band monobit receivers for receiving signals output from said digital filter bank and of a greater value than said preselected threshold and further, said plurality of narrow-band receivers receiving only the highest two bits from real and imaginary parts of said signal output from said digital filter bank and of a greater value than said signal eliminating threshold", as claimed, in independent claim 1 and similarly in independent claims 11, 12 (claims 2-10, 13-18 depend therefrom). Conventional approach to building a wideband digital receivers is known to use a polyphase filter to slowdown the operation speed of the fast Fourier transform. However, prior art of record, taking individually or collectively, fails to fairly teach such receiving method and apparatus including the particular claimed subject matter. Thus, claims 1-18 are found to be novel and unobvious over prior art of record.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dac V. Ha whose telephone number is 571-272-3040. The examiner can normally be reached on 5/4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on 571-272-3056. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Dac V. Ha Primary Examiner Art Unit 2634